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UNITED STATES  
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**UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH ADMINISTRATION  
SERVICE AND REGULATORY ANNOUNCEMENTS  
BUREAU OF ANIMAL INDUSTRY**

AUGUST 1945

This publication is issued monthly for the dissemination of information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. Free distribution is limited to persons in the service of the Bureau, establishments at which official inspection work is conducted, public officers whose duties make it desirable for them to have such information, and journals especially concerned. Others desiring copies may obtain them from the Superintendent of Documents, Government Printing Office, Washington, D. C., at 5 cents each, or 25 cents a year (foreign, 45 cents). A supply will be sent to each official in charge of a station or branch of the Bureau service, who should promptly distribute copies to members of his force. A file should be kept at each station for reference.

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**CHANGES IN DIRECTORY**

**Change of Official in Charge**

Dr. Lawrence B. Clausen succeeds Dr. W. J. Fretz (retired) as acting inspector in charge at St. Paul, Minn., effective August 1, 1945.

Dr. F. C. Mau succeeds Dr. Ben H. Stiegeler (acting) as inspector in charge of public stockyards inspection at Chicago, Ill., effective August 13, 1945.

Dr. F. C. Swaney succeeds Dr. F. C. Mau as inspector in charge at South St. Joseph, Mo., effective August 13, 1945.

**Change of Address of Official in Charge**

Dr. B. N. Lauderdale, Room 338, New Post Office Building, Montgomery 1, Ala., instead of Room 409.

**LIVESTOCK INSPECTED WHEN OFFERED FOR IMPORTATION, JULY 1945**

Port of entry	Cattle	Swine	Sheep	Goats	Horses	Mules and asses
Mexican border ports.....	3,599				93	12
Canadian border ports.....	7,493	42	919		1,545	
Total—						
July 1945.....	11,092	42	919		1,638	12
July 1944.....	5,563	4	136		2,507	47

**SUMMARY OF TUBERCULOSIS-ERADICATION WORK IN COOPERATION WITH STATES, JULY 1945**

State or Territory	Tuberculin tests during month			Accredited herds <sup>1</sup>	Herds under supervision	Inspector in charge	State official
	Cattle	Infected premises	Cattle re-accredited				
Alabama	1,771	2	3	688	271,563	B. N. Lauderdale	I. S. McAdory, Auburn.
Arizona	2,567	4	14	2	12,593	F. L. Schneider	Vego Mikkelsen, Phoenix.
Arkansas	1,465	2	2	0	228,256	A. W. Rice	Joe S. Campbell, Little Rock.
California	48,281	14	85	7	74,669	H. M. O'Rear	A. K. Carr, Sacramento.
Colorado	1,315	3	4	24	60,846	Edgar Heiny	R. M. Gow, Denver.
Connecticut	4,086	6	16	17,868	18,970	R. L. Smith	Robert E. Foote, Hartford.
Delaware	2,705	1	6	2,132	7,662	O. L. Lockwood	Harry McDaniel, Jr., Dover.
Dist. of Col.	0	0	0	2	17	A. E. Wight	J. V. Knapp, Tallahassee.
Florida	13,612	3	3	46	67,656	T. H. Applewhite	Tom Linder, Atlanta.
Georgia	2,277	1	6	78	243,008	W. C. Dendering	A. P. Schneider, Boise.
Idaho	2,066	2	2	28	51,500	F. F. Fischer	C. E. Fidler, Springfield.
Illinois	65,590	166	314	723	244,242	A. K. Kuttler	C. E. Botkin, Indianapolis.
Indiana	14,745	17	19	178	147,750	W. A. Sullivan	C. C. Franks, Des Moines.
Iowa	8,098	23	34	530	194,440	J. A. Barger	Will J. Miller, Topeka.
Kansas	31,964	9	10	154	171,032	W. E. Logan	B. F. Piggy Frankfort.
Kentucky	1,314	2	5	18	163,867	E. E. Coshow	E. P. Flower, Baton Rouge.
Louisiana	4,083	3	10	0	148,804	W. A. McDonald	Francis G. Buzzell, Augusta.
Maine	1,142	0	0	169	43,817	B. J. Cadby	A. L. Brueckner, Baltimore.
Maryland	14,912	6	7	14,694	45,056	O. L. Lockwood	Harrie W. Peirce, Boston.
Massachusetts	6,497	5	45	19,663	20,936	E. M. Aldrich	C. H. Clark, Lansing.
Michigan	28,056	7	8	56	207,087	C. H. Hays	Ralph L. West, St. Paul.
Minnesota	5,149	1	1	621	184,561	W. J. Fretz	H. C. Simmons, Jackson.
Mississippi	1,058	0	0	5	260,173	Hartwell Robbins	H. E. Curry, Jefferson City.
Missouri	6,112	3	4	61	239,687	E. C. Hughes	W. J. Butler, Helena.
Montana	682	0	0	19	73,033	G. W. Cronen	J. R. Snyder, Lincoln.
Nebraska	146	2	3	24	135,277	J. W. Murdoch	W. B. Earl, Reno.
Nevada	4	0	0	0	3,441	S. H. Still	R. W. Smith, Concord.
New Hampshire	2,580	3	13	17,082	20,416	E. M. Aldrich	R. A. Hendershott, Tren-ton.
New Jersey	13,733	34	70	13,080	15,803	J. R. Porteus	Sam McCue, Albuquerque.
New Mexico	698	0	0	3	25,450	F. L. Schneider	Ivan G. Howe, Albany.
New York	71,464	20	42	114,719	126,199	H. B. Leonard	William Moore, Raleigh.
North Carolina	4,153	1	1	562	256,713	A. A. Husman	T. O. Brandenburg, Bis-marck.
North Dakota	13,048	15	22	137	68,003	F. C. Driver	D. C. Hyde, Columbus.
Ohio	9,720	6	8	761	236,376	A. J. DeFosset	W. W. Rosenberry, Oklahoma City.
Oklahoma	2,800	4	10	16	160,434	C. H. Fauks	W. H. Lytle, Salem.
Oregon	11,233	28	30	2,170	152,798	S. B. Foster	C. P. Bishop, Harrisburg.
Pennsylvania	34,654	65	238	6,358	164,483	J. B. Reidy	J. S. Barber, Providence.
Rhode Island	2,852	2	4	2,520	2,820	E. M. Aldrich	W. K. Lewis, Columbia.
South Carolina	359	2	2	113	57,507	Neil Plank	R. S. Robinson, Pierre.
South Dakota	1,118	1	1	3	73,365	H. L. Fry	C. E. Kord, Nashville.
Tennessee	1,829	0	0	23	294,936	W. K. Lewis	E. A. Grist, Fort Worth.
Texas	11,173	3	3	62	372,281	H. L. Darby	J. I. Curtis, Salt Lake City.
Utah	4,758	12	14	0	87,311	F. H. Melvin	Stanley Judd, Montpelier.
Vermont	7,076	7	33	15,460	21,796	H. N. Howlett	H. C. Givens, Richmond.
Virginia	7,862	1	1	486	199,500	H. S. Miller	H. A. Trippier, Olympia.
Washington	4,632	4	5	8	82,593	J. C. Exline	T. C. Green, Charleston.
West Virginia	4,058	0	0	612	115,912	H. M. Newton	V. S. Larson, Madison.
Wisconsin	74,158	53	97	4,316	179,527	J. S. Healy	George H. Good, Cheyenne.
Wyoming	1,268	2	2	0	21,907	W. I. Bowersox	E. H. Willers, Honolulu.
Hawaii	0	0	0	0	1,800	A. H. Julien	Luis A. Izquierdo, San Juan.
Puerto Rico	3,557	11	29	0	62,568	E. E. Maas	Ralph L. Williams, Christiansted.
Virgin Islands	0	0	0	0	420	E. E. Maas	
Total	558,480	556	1,226	237,283	6,120,861		

<sup>1</sup>All States are 100 percent modified accredited. Puerto Rico and the Virgin Islands are also in the modified accredited area.

**SUMMARY OF BRUCELLOSIS (BANG'S DISEASE) WORK IN  
COOPERATION WITH STATES, JULY 1945<sup>1</sup>**

State or Territory	Tests made of blood samples during month		Tests of herds containing reactors			Calves vaccinated during month	Modified accredited counties	Total accredited	Herds under supervision	Total cattle on waiting list		
					Reactors							
	Herds	Cattle	Herds	Cattle	For slaughter							
Alabama.....	1,633	8,127	70	3,566	208	91	374	42	2	124	175,253	733
Arizona.....	160	1,872	25	517	56	14	79	0	2	125	11,253	1,000
Arkansas.....	322	3,224	55	1,068	166	53	146	15	0	0	222,414	0
Colorado.....	275	2,671	55	884	0	147	434	0	9	414	3,559	2,221
Connecticut.....	69	1,079	21	409	69	0	57	0	314	7,658	912	0
Delaware.....	110	1,335	9	223	10	7	132	0	511	10,175	5,224	0
Florida.....	587	11,387	51	4,477	401	31	503	0	116	7,284	32,547	0
Georgia.....	401	5,695	56	1,915	219	0	47	65	36	2,546	129,025	205,458
Idaho.....	455	3,621	98	1,060	144	42	342	9	391	6,987	45,226	0
Illinois.....	3,982	36,816	857	13,839	91	2,283	4,644	0	159	3,635	90,230	40,650
Indiana.....	11	176	3	46	3	0	0	0	2,779	58,374	5,560	500
Iowa.....	891	8,258	313	4,261	897	0	1,662	0	2,728	43,669	35,115	4,852
Kansas.....	563	3,690	137	1,453	290	0	4	0	273	6,061	9,880	1,509
Kentucky.....	213	3,770	55	1,441	177	33	85	0	102	2,087	36,976	3,586
Louisiana.....	257	2,242	88	1,638	142	194	2,405	5	0	0	62,049	24,285
Maine.....	1,024	9,759	181	2,934	282	94	425	7	119	2,629	29,703	18,707
Maryland.....	548	5,476	77	1,540	190	19	950	7	3,302	57,267	26,264	0
Massachusetts.....	0	0	0	0	0	0	127	0	87	4,290	4,759	0
Michigan.....	1,615	14,695	164	2,059	344	23	451	30	1,286	33,111	30,481	110
Minnesota.....	1,484	20,974	218	4,780	727	0	1,193	21	278	8,393	96,394	57,731
Mississippi.....	325	6,828	48	1,155	404	0	0	6	151	4,725	8,296	0
Missouri.....	0	0	0	0	0	0	0	0	20	1,472	94,665	0
Montana.....	114	2,426	21	744	35	76	254	0	15	856	3,597	0
Nebraska.....	98	1,094	26	385	78	0	17	0	114	2,791	7,320	0
Nevada.....	24	193	6	94	0	12	80	0	57	1,875	355	0
New Hampshire.....	409	4,744	139	2,150	293	0	522	4	9,817	73,886	16,749	0
New Jersey.....	141	3,340	10	1,003	10	18	115	0	824	11,567	1,619	0
New Mexico.....	343	3,111	12	250	36	0	76	0	46	1,865	11,615	2,000
New York.....	1,118	20,221	736	17,175	24	2,270	7,905	0	2,540	45,291	27,490	150,000
North Carolina.....	694	10,449	44	2,196	84	0	29	100	627	25,143	249,084	0
North Dakota.....	1,135	16,070	181	2,843	617	0	123	26	12	528	54,972	159,090
Ohio.....	301	4,520	33	696	122	0	450	6	3,210	59,706	66,258	33,000
Oklahoma.....	236	3,900	76	2,157	231	2	81	0	482	10,810	1,798	1,021
Oregon.....	2,763	18,946	121	2,502	260	0	58	17	0	0	116,171	0
Pennsylvania.....	2,000	24,574	415	3,393	1,151	0	1,183	21	6,247	145,124	76,358	131,923
Rhode Island.....	7	144	2	37	0	7	29	0	37	668	85	0
South Carolina.....	248	3,012	28	1,327	48	7	13	10	80	5,852	39,209	3,000
South Dakota.....	150	2,053	47	969	164	104	515	0	11	497	3,414	2,500
Tennessee.....	206	5,418	106	3,409	114	123	628	4	470	15,249	47,342	5,014
Texas.....	65	1,931	11	567	35	0	267	0	706	13,654	1,569	0
Utah.....	460	2,065	41	413	0	82	169	0	3	70	7,363	0
Vermont.....	817	12,058	161	2,527	0	524	3,066	0	859	20,636	5,948	12,688
Virginia.....	519	7,480	69	2,122	203	21	238	80	165	9,776	189,128	78,761
Washington.....	626	4,283	42	885	164	0	1,531	19	0	0	72,441	0
West Virginia.....	407	4,354	36	1,059	86	0	142	32	261	2,370	73,751	0
Wisconsin.....	362	9,473	143	3,996	490	0	6,972	8	6,316	187,056	79,340	16,952
Wyoming.....	106	1,342	13	540	70	66	392	0	8	880	3,982	0
Puerto Rico.....	10	810	3	273	4	1	74	0	1	89	77	- 1,890
Total.....	28,484	319,706	5,103	102,677	9,142	6,344	38,989	534	45,573	897,265	2,312,820	959,181

<sup>1</sup> Officials in charge of brucellosis work are the same as those listed in summary of tuberculosis-eradication work.

<sup>2</sup> Nonvaccinated reactors held during the month.

## BIOLOGICAL PRODUCTS PREPARED UNDER LICENSES, JULY 1945

*Anti-hog-cholera serum*

Period	Preserved (processed)	Completed (batched)	Released	Destroyed
July 1945	<i>Cc.</i> 85,874,466	<i>Cc.</i> 88,856,622	<i>Cc.</i> 131,945,170	<i>Cc.</i> 265,575
July 1944	135,386,251	145,958,763	183,820,695	645,774
7 months ended—				
July 1945	597,171,707	592,598,454	650,648,585	2,281,011
July 1944	1,129,633,786	1,146,319,491	1,030,170,895	5,547,424

*Hog-cholera virus*

Period	Produced			Destroyed	
	Simultaneous	Hyperimmunizing	Inoculating	Simultaneous	Hyperimmunizing
July 1945	<i>Cc.</i> 14,086,132	<i>Cc.</i> 20,217,468	<i>Cc.</i> 105,536	<i>Cc.</i> 515,825	<i>Cc.</i> 735,319
July 1944	11,815,413	25,338,846	142,222	700,827	1,054,850
7 months ended—					
July 1945	65,591,611	121,824,142	707,200	3,348,301	5,329,390
July 1944	65,684,048	220,517,616	1,026,080	4,577,352	7,165,780

## INSPECTIONS AND TESTS IN THE PRODUCTION OF ANTI-HOG-CHOLERA SERUM AND HOG-CHOLERA VIRUS UNDER LICENSES, JULY 1945

Period	Animal inspections	Animal rejections	Pigs inoculated	Hogs hypered	Tests supervised	
					Serum	Virus
July 1945	294,855	3,398	29,408	13,497	610	413
July 1944	394,377	4,752	34,425	19,877	717	374
7 months ended—						
July 1945	1,789,965	21,018	179,208	86,440	2,577	1,783
July 1944	3,183,299	37,085	279,716	166,599	4,469	1,842

## PERMIT ISSUED FOR ORGANISMS OR VECTORS, JULY 1945

Permit No. 55 issued July 17, 1945, to Dr. W. H. Taliaferro, Department of Bacteriology and Parasitology, University of Chicago, 5724 Ellis Avenue, Chicago, Ill., to import one shipment from San Juan, Puerto Rico.

**BIOLOGICAL PRODUCTS PRODUCED AND DESTROYED IN LICENSED ESTABLISHMENTS DURING FISCAL YEAR ENDED JUNE 30, 1945**

(Exclusive of anti-hog-cholera serum, hog-cholera vaccine and hog-cholera virus)

[Cubic centimeters, unless otherwise stated—Figures in thousands—i. e., 000 omitted]

	ANTITOXINS	<i>Produced</i>	<i>Destroyed</i> <sup>1</sup>
Botulinus antitoxin-----		908	
Tetanus antitoxin-----		1,828	20
Other antitoxins-----		27	5
Total-----		2,763	25
 SERUMS			
Antianthrax serum-----		3,544	441
Antibacterial serum (bovine)-----		1,247	437
Antibacterial serum (canine)-----		1,537	469
Antibacterial serum (equine)-----		1,631	369
Antibacterial serum (feline)-----		412	3
Anti-canine-distemper serum-----		12,966	126
Antiencephalomyelitis serum-----		1,954	1,791
Anti-hemorrhagic-septicemia serum-----		18,117	1,423
Anti-swine-erysipelas serum-----		26,250	1,834
Normal serum-----		3,574	173
Other serums-----		4,670	424
Total-----		75,902	7,490
 AGGRESSINS			
Blackleg cultural aggressin----- disks		65	5
Blackleg cultural aggressin-----		4,081	199
Hemorrhagic-septicemia aggressin-----		2,444	206
Other aggressins-----		1,244	195
Total-----		7,769	600
Total----- disks		65	5
 DIAGNOSTICS			
Avian tuberculin-----		20	2
Mallein-----		2	
Tuberculin-----		111	24
Total-----		133	26
 TOXOIDS			
Tetanus toxoid-----		1,942	36
Other toxoids-----		7	8
Total-----		1,949	44
 VACCINES AND VIRUSES			
Anthrax spore vaccine-----		5,060	1,229
Blackleg tissue vaccine----- disks		382	88
Brucella abortus vaccine-----		20,732	6,487
Canine-distemper vaccine----- milligrams		2,215	137
Canine-distemper vaccine----- do-----		568	47
Canine-distemper virus-----		283	
Canine-distemper virus-----		82	1
Encephalomyelitis vaccine-----		2,373	1,519
Erysipelothrix rhusiopathiae vaccine-----		935	870
Feline-distemper vaccine-----		132	

<sup>1</sup> Includes products in process and some produced during previous years.

**BIOLOGICAL PRODUCTS PRODUCED AND DESTROYED IN LICENSED  
ESTABLISHMENTS DURING FISCAL YEAR ENDED JUNE 30, 1945—  
Continued**

[Cubic centimeters, unless otherwise stated—Figures in thousands—i. e., 000 omitted]

		VACCINES AND VIRUSES—continued	Produced	Destroyed <sup>1</sup>
Fowl-laryngotracheitis vaccine	milligrams	13, 557	1, 877	
Fowl-pox vaccine	do	16, 143	1, 744	
Ovine-ecthyma vaccine	do	1, 116	304	
Pigeon-pox vaccine	do	2, 462	721	
Rabies vaccine		11, 028	1, 275	
Wart vaccine		646		
Other vaccines		197	31	
Other vaccines	disks		4	
Total		43, 000	11, 549	
Total	disks	382	92	
Total	milligrams	34, 129	4, 693	

BACTERINS

Anthrax bacterin		950	126
Autogenous bacterin		1, 055	
Avisepticus-gallinarum bacterin		12, 923	405
Blackleg bacterin		60, 068	1, 875
Clostridium chauvei-septicus bacterin		10, 083	242
Clostridium hemolyticum bacterin		3, 865	242
Coli-enteritidis bacterin		667	66
Gallinarum-typhimurium bacterin		1, 232	17
Hemorrhagic-septicemia bacterin		32, 206	1, 304
Pasteurella avicida bacterin		2, 851	
Pasteurella-pseudodiphthericum bacterin		9, 317	645
Pasteurella-salmonella choleraeuis bacterin		1, 285	
Salmonella abortivaequina bacterin			12
Salmonella cholerasuis bacterin		1, 912	136
Staphylococcus-streptococcus bacterin		1, 366	7
Other bacterins		1, 508	150
Total		141, 288	5, 227

MIXED BACTERIN

Mixed bacterin (avian)		14, 895	2, 082
Mixed bacterin (bovine)		36, 867	2, 860
Mixed bacterin (canine)		246	57
Mixed bacterin (equine)		2, 569	823
Mixed bacterin (feline)		93	4
Mixed bacterin (lepine)		39	51
Mixed bacterin (ovine)		4, 370	1, 140
Mixed bacterin (porcine)		14, 752	1, 895
Total		73, 831	8, 912

Grand total:

Cubic centimeters		347, 038	33, 877
Disks		447	97
Milligrams		34, 129	4, 693

<sup>1</sup> Indicates products in process and some produced during previous years.

## PERMITTED DIP FOR SCABIES

### Distributor

Permission has been granted by the Department to the Norden Laboratories, Lincoln, Nebr., to distribute Rex Lime and Sulphur Solution for use in official dipping of sheep and cattle for scabies under the name "Norden Lime and Sulfur Solution," in accordance with the provisions of B. A. I. Order 309. The dilutions at which this dip is permitted to be used are as follows:

For sheep—1 gallon concentrated solution to 20½ gallons water.  
For cattle—1 gallon concentrated solution to 15 gallons water.

## NEW PUBLICATIONS OF THE BUREAU

The Bureau keeps no mailing list for sending publications to individual employees, but sends copies to officers in charge of stations and offices. These publications should be regarded as notification copies. So far as possible additional copies will be furnished on request.]

**Circular 731.** Composition and Nutritive Value of Pork as Related to Weights of Animals and Cuts. By O. G. Hankins and N. R. Ellis, Animal Husbandry Division. Pp. 22, illus.

**Changes in the National Poultry Improvement Plan.** (Mimeographed) Pp. 5.  
**A. H. D. 31 (Revised).** The Beltsville Small White Turkey. (Mimeographed) Pp. 4.

**Research Achievement Sheet 35 (E).** Rotenone Root Powders Save the Raspberry Corp.

**Research Achievement Sheet 36 (E).** Safe Planting Dates Reduce Wheat Damage by Hessian Fly.

**Research Achievement Sheet 37 (P).** The Discovery of the Influence of Day Length of Plants.

**Research Achievement Sheet 38 (P).** Abaca (Manila Hemp). Production Established in the Western Hemisphere.

**Research Achievement Sheet 39 (A).** Instrument Measures Tenderness of Meat.

## AMENDMENTS TO DEPARTMENT REGULATIONS

The following amendments to the regulations of the Department have been made:

Amendment 207, covering regulation 1122.

Amendment 208, covering regulations 1356 and 1357.

Amendment 209, covering regulation 3117.

Amendment 210, covering regulation 1114.

## ORGANIZATION OF THE BUREAU OF ANIMAL INDUSTRY

**Chief:** A. W. MILLER.

**Assistant Chief:** HUGH C. MCPHEE.

**Assistant Chief:** S. O. FLADNESS.

**Assistant Chief:** PAUL E. HOWE.<sup>1</sup>

**Business Manager:** J. R. COHRAN

**Assistant Business Manager:** N. A. OLSTEAD.

**Animal Husbandry Division:** HUGH C. MCPHEE, Head Animal Husbandman in charge.

**Field Inspection Division:** S. O. FLADNESS, Head Veterinarian in charge.

**Information Division:** D. S. BURCH, Information Specialist in charge.

**Interstate Inspection Division:** W. M. MACKELLAR, Principal Veterinarian in charge.

**Pathological Division:** HARRY W. SCHOENING, Head Veterinarian in charge.

**Tuberculosis Eradication Division:** A. E. WIGHT, Principal Veterinarian in charge.

**Division of Virus-Serum Control:** D. I. SKIDMORE, Principal Veterinarian in charge.

**Zoological Division:** BENJAMIN SCHWARTZ, Principal Zoologist in charge.

<sup>1</sup> On military furlough.





